

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

DM 3132

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917) FEBRUARY 1981

SECTION I

MANUFACTURER'S NAME

Koppers Company, Inc., Koppers Bldg.

EMERGENCY TELEPHONE NO.

412-227-2000

ADDRESS (Number, Street, City, State, and ZIP Code)
Pittsburgh, PA 15219

commerce # 560-5700(213)

CHEMICAL NAME AND SYNONYMS

Alkyd Spar Varnish

TRADE NAME AND SYNONYMS

Yachtsman Varnish

CHEMICAL FAMILY

Alkyd Spar Varnish

FORMULA

Z-spar V-274 Polyurethane Varnish

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS *See below			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES Lead in drier	0.2	0.05 mg/m ³	OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
*Mineral Spirit					130PPM
Aromatic Hydrocarbon					100PPM

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)		SPECIFIC GRAVITY (H ₂ O=1)	7.75 lbs
VAPOR PRESSURE (mm Hg.)		PERCENT, VOLATILE BY VOLUME (%)	54
VAPOR DENSITY (AIR=1)	Heavier	EVAPORATION RATE N But Acet =1)	Slower
SOLUBILITY IN WATER	Negligible		
APPEARANCE AND ODOR Clear liquid with typical hydrocarbon odor.			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	102°F TCC	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA				
Foam, water spray or fog, dry chemical, CO ₂				
SPECIAL FIRE FIGHTING PROCEDURES				
Use air supplied equipment for enclosed areas, cool exposed containers with water.				
UNUSUAL FIRE AND EXPLOSION HAZARDS				
Keep away from heat, sparks, or open flames.				

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

.05 mg/m³ in air, 100PPM from solvent vapor.

EFFECTS OF OVEREXPOSURE

Irritation to eyes, nose and throat near or above 100 ppm from vapors. Higher concentrations cause drowsiness, dizziness, followed by coma. Dangerously high concentrations could cause death from explosion or from breathing.

EMERGENCY AND FIRST AID PROCEDURES

If inhaled remove to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. Call a physician. In case of skin contact, wash thoroughly with soap and water; for eyes, flush immediately with plenty of water for 15 minutes and call a physician. Wash contaminated clothing before reuse. If swallowed, CALL A PHYSICIAN IMMEDIATELY. DO NOT induce vomiting.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid)			
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition (flames, electrical, static or frictional sparks; hot surfaces, etc.) Avoid breathing of vapors. Ventilate area. Contain and scoop up spill with non-sparking tools, rags, etc. Use inert absorbent materials on small spills or on residuals of large spills.

WASTE DISPOSAL METHOD

Dispose of in accordance with local applicable regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) Organic vapor canister where oxygen content is adequate and vapor concentration is less than 2% or use air supplied face masks.

VENTILATION	LOCAL EXHAUST	X	SPECIAL
	MECHANICAL (General)	X	OTHER
PROTECTIVE GLOVES		EYE PROTECTION	
Rubber Gloves		Goggles	
OTHER PROTECTIVE EQUIPMENT			

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep containers closed and upright to prevent leakage. Avoid flames, welding, smoking, sparks, open lights, etc. Avoid breathing of vapor or spray mist. Avoid eye and skin contact.

OTHER PRECAUTIONS

Maintain good personal hygiene. Do not use in confined areas, tank or pit without adequate ventilation.